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**NONAQUEOUS SYSTEM ELECTROLYTE BATTERY (07-192759****Publication Number:** JP 7192759 A) , July 28, 1995**Inventors:**

- SUEMORI ATSUSHI
- SHOJI YOSHIHIRO
- NISHIO KOJI
- SAITO TOSHIHIKO

**Applicants**

- SANYO ELECTRIC CO LTD (A Japanese Company or Corporation), JP (Japan)

**Application Number:** 05-327902 (JP 93327902) , December 24, 1993**International Class (IPC Edition 6):**

- H01M-010/40

**JAPIO Class:**

- 42.9 (ELECTRONICS--- Other)
- 14.2 (ORGANIC CHEMISTRY--- High Polymer Molecular Compounds)

**Abstract:**

**PURPOSE:** To suppress self discharge during storage and increase shelf life by adding phenolic resin to a nonaqueous system electrolyte.

**CONSTITUTION:** A positive electrode 1 and a negative electrode 2 using lithium as an active material are spirally wound through a separator 3 impregnated with a nonaqueous system electrolyte comprising a solute selected from the group comprising LiPF(sub 6), LiClO(sub 4), LiCF(sub 3)SO(sub 3), LiBF(sub 4), LiAsF(sub 6), and LiN(CF(sub 3)SO(sub 2))(sub 2), a solvent selected from the group comprising ethylene carbonate, propylene carbonate, butylene carbonate, vinylene carbonate, 1,2-dimethoxyethane, dimethyl carbonate, diethyl carbonate, ethylmethyl carbonate, tetrahydrofuran, and 1,3- dioxolane, and 0.5-30.0wt.% phenolic resin to constitute a spiral electrode body. The spiral electrode body is inserted into a battery can 4, then the negative electrode 2 is connected to the battery can 4 through a negative conductor 5, and the positive electrode 1 is connected to a battery cover 7 through a positive conductor 6.

**JAPIO**

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